

<b>INFORMATION DISCLOSURE STATEMENT</b>		Atty. Docket No.: 285.00810102		Serial No.: 09/400,607			
				Confirmation No.:			
		Applicant(s): Ty J. CASWELL et al.					
		Filing Date: 20 September 1999		Group: 2732			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
<i>T-D</i>		Re 35,104	11/28/95	Murakami et al.	—	—	
↑		4,059,731	11/22/77	Green et al.	↑	↑	
		4,059,800	11/22/77	Jones, Jr.			
		4,124,773	11/07/78	Elkins			
		4,178,480	12/11/79	Carbrey			
		4,216,354	08/05/80	Esteban et al.			
		4,309,434	05/03/94	Maekawa			
		4,310,721	01/12/82	Manley et al.			
		4,363,122	12/07/82	Black et al.			
		4,450,554	05/22/84	Steensma et al.			
		4,455,649	06/19/84	Esteban et al.			
		4,491,945	01/01/85	Turner			
		4,494,230	01/15/85	Turner			
		4,532,495	07/30/85	Gagnon			
		4,533,948	08/06/85	McNamara et al.			
		4,535,448	08/13/85	Baxter et al.			
		4,549,290	10/22/85	Bell			
		4,549,308	10/22/85	LoPinto	↓	↓	
<i>T-D</i>		4,555,805	11/26/85	Talbot	—	—	

<b>EXAMINER</b> <i>DANIS JONV</i>	<b>Date Considered</b> <i>9/2/01</i>
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<i>↑</i>		4,581,735	04/08/86	Flamm et al.	—	—	
		4,589,107	05/13/86	Middleton et al.			
		4,611,323	09/09/86	Hessenmiller			
		4,611,342	09/09/86	Miller et al.			
		4,630,262	12/16/86	Callens et al.			
		4,631,746	12/23/86	Bergeron et al.			
		4,644,561	02/17/87	Paneth et al.			
		4,660,194	04/21/87	Larson et al.			
		4,679,190	07/07/87	Dias et al.			
		4,698,803	10/06/87	Haselton et al.			
		4,716,585	12/29/87	Tompkins et al.			
		4,718,057	01/05/88	Venkitakrishnan et al.			
		4,723,238	02/02/88	Isreal et al.			
		4,730,311	03/08/88	Carse et al.			
		4,757,497	07/12/88	Beierle et al.			
		4,769,833	09/06/88	Farleigh et al.			
		4,782,485	11/01/88	Gollub			
		4,782,515	11/01/88	Phillips, deceased et al.			
<i>↓</i>		4,785,472	11/15/88	Shapiro	—	—	

<b>EXAMINER</b> <i>DMV DMV</i>	<b>Date Considered</b> <i>9/8/01</i>
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↑		4,792,945	12/20/88	Mark	—	—	
		4,802,221	01/31/89	Jibbe			
		4,817,089	03/28/89	Paneth et al.			
		4,821,312	04/11/89	Horton et al.			
		4,839,906	06/13/89	Leveque et al.			
		4,847,677	06/11/89	Music et al.			
		4,847,829	07/11/89	Tompkins et al.			
		4,866,704	09/12/89	Bergman			
		4,872,160	10/03/89	Hemmady et al.			
		4,890,326	12/26/89	Euler			
		4,890,327	12/26/89	Bertrand et al.			
		4,893,308	01/09/90	Wilson et al.			
		4,893,326	01/09/90	Duran et al.			
		4,893,339	01/09/90	Bright et al.			
		4,905,231	02/27/90	Leung et al.			
		4,907,277	03/06/90	Callens et al.			
		4,912,705	03/27/90	Paneth et al.			
		4,926,482	02/15/90	Frost et al.			
↓		4,932,022	06/05/90	Keeney et al.			
FD		4,935,927	06/19/90	Kaewell, Jr. et al.	—	—	

<b>EXAMINER</b> DMV, DM	<b>Date Considered</b> 9/8/01
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<i>F-D</i>		4,974,099	11/27/90	Lin et al.	—	—	
<i>↑</i>		4,981,371	01/01/91	Gurak et al.			
		4,985,891	01/15/91	Fujiwara et al.			
		4,991,172	02/05/91	Cidon et al.			
		4,991,197	02/05/91	Morris			
		4,994,802	02/19/91	Critchlow et al.			
		4,996,697	02/26/91	Critchlow et al.			
		4,998,248	03/05/91	Matsuzaki			
		5,007,050	04/09/91	Kasparian et al.			
		5,014,267	05/07/91	Tompkins et al.			
		5,014,306	05/07/91	Rodgers et al.			
		5,023,903	06/11/91	Bowen			
		5,034,962	07/23/91	Yamamoto et al.			
		5,042,028	08/20/91	Ogawa			
		5,070,526	12/03/91	Richmond et al.			
		5,072,308	12/10/91	Lin et al.			
		5,073,926	12/17/91	Suzuki et al.			
		5,079,769	01/07/92	Ehrlicke et al.			
<i>✓</i>		5,086,425	02/04/92	Le Goffic et al.			
<i>F-D</i>		5,150,357	09/22/92	Hopner et al.	—	—	

<b>EXAMINER</b> <i>D M V G D M</i>	<b>Date Considered</b> <i>9/8/01</i>
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<i>T.O.</i>		5,155,726	10/13/92	Spinney et al.	—	—	
		5,170,427	12/08/92	Guichard et al.			
		5,179,588	01/12/93	Nowicki			
		5,195,086	03/16/93	Baumgartner et al.			
		5,195,130	03/16/93	Weiss et al.			
		5,214,650	05/25/93	Renner et al.			
		5,228,033	07/13/93	Okouchi			
		5,228,076	07/13/93	Hopner et al.			
		5,260,783	11/09/93	Dixit			
		5,272,700	12/21/93	Hansen et al.			
		5,280,519	01/18/94	Nakajima et al.			
		5,288,026	07/13/93	Albrow et al.			
		5,365,576	11/15/94	Tsumura et al.			
		5,375,068	12/20/94	Palmer et al.			
<i>V</i>		5,426,652	06/20/95	Heiman			
<i>T.O.</i>		5,440,619	08/08/95	Cann	—	—	

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	SubClass	Translation	
						Yes	No
<i>T.O.</i>	EP 0 374 828 B1	06/27/90	EPO	—	—		X

<b>EXAMINER</b> <i>D.H.V.G. D.V.N.</i>	<b>Date Considered</b> <i>9/8/01</i>
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<i>T.O.</i>		EP0 480 634 B1	04/15/92	EPO	<del>—</del>	<del>—</del>		
<i>X</i>		EP 0 425 163 B1	05/02/95	EPO				
		DE 3344140 C2	06/14/84	Germany				X
		DE 3426055 A1	01/31/85	Germany				X
		DE 3409532 A1	09/19/85	Germany				X
		DE 3726366 C2	02/11/88	Germany				X
		DE 3531173 C2	03/13/89	Germany				X
		GB 2 025 735 A	01/23/80	Great Britain				
		GB 2 131 654 A	06/20/84	Great Britain				
		GB 2 173 070 A	10/01/86	Great Britain				
		GB 2 184 327 A	06/17/87	Great Britain				
		GB 2 195 866 A	04/13/88	Great Britain				
		GB 2 208 986 A	04/19/89	Great Britain				
		GB 2 212 028 A	07/12/89	Great Britain				
		GB 2 227 625 A	08/01/90	Great Britain				
		61077449	04/21/86	Japan (English Abstract)				X
		62-61437	03/18/87	Japan				X
<i>↓</i>		62-77730	04/09/87	Japan				X
<i>T.O.</i>		63-48030	02/29/88	Japan	—	—		X

<b>EXAMINER</b> <i>D HVC JMC</i>	<b>Date Considered</b> <i>9/8/01</i>
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Top		63-54052	03/08/88	Japan	—	—		X
↑		63-64460	03/22/88	Japan (English Abstract)				X
		63-105533	05/10/88	Japan				X
		63-155831	06/29/88	Japan				X
		63-169850	07/13/88	Japan				X
		64-16043	01/19/89	Japan				X
		64-18329	01/23/89	Japan (English Abstract)				X
		1-181344	07/19/89	Japan				X
		2-67847	03/07/90	Japan				X
		2-107027	04/19/90	Japan				X
		2-145097	06/04/90	Japan				X
		3-58582	03/13/91	Japan				X
		3-157027	07/05/91	Japan				X
		4-35137	02/05/92	Japan				X
		5-504687	07/22/93	Japan				X
↓		WO 87/01254	02/26/87	PCT				
Top		WO 91/05419	04/18/91	PCT	—	—		

<b>EXAMINER</b> DAVID DON	<b>Date Considered</b> 9/8/01
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<b>OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)</b>			
F-1			"1983 Index, IEEE Journal on Selected Areas in Communications Vol. SAC-1", pp. 1-13 (1983).
↑			"A history of video conferencing (VC) technology", 2 pages (date unknown).
			"Composite Mini-Packet Switching", <u>IBM Technical Disclosure Bulletin</u> , 32(5A):162-164 (1989).
			"Data Communication Networks: Transmission, Signalling and Switching, Network Aspects, Maintenance, Administrative Arrangements, Recommendations X.40-X.180", <u>CCITT Yellow Book, Volume VIII-Fascicle VIII.3</u> , pp. 142-208 (1980).
			"Data Communication Over the Telephone Network: Definitions of Terms Concerning Data Communication over the Telephone Network", <u>ITU-T Recommendation V. 7</u> (1993).
			"Data Communication Over the Telephone Network: Data Compression Procedures for Data Circuit Terminating Equipment (DCE) Using Error Correction Procedures", <u>CCITT Recommendation V. 42 bis</u> (1990).
			"Data Communication Networks: Services and Facilities, Terminal Equipment and Interfaces, Recommendations X.1-X.29", <u>CCITT Yellow Book, Volume VIII-Fascicle VIII.2</u> , pp. 100-190 (1981).
			"DEC Sound/Picture Information Network, (DECspin) for ULTRIX, Version 1.0", <u>Digital Corp.</u> , 4 pages (1992).
			"Dial-up comm server", <u>LAN Technology</u> , 7(12):87 (1991).
↓			"Error Control for Voice/Data Packet Network", <u>IBM Technical Disclosure Bulletin</u> , 29(7):3092-3095 (1986).
T-1			"Experimental Internet Stream Protocol, Version 2 (ST-II)", <u>Network Working Group, CIP Working Group</u> , 148 pages (1990).

<b>EXAMINER</b> DAN G TON	<b>Date Considered</b> 9/8/01
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T-D			"Forthcoming Special Issues and Mini-Special Issues of IEEE Journal on Selected Areas in Communications and IEEE Transactions on Communications for 1984-1985", <u>IEEE Journal on Selected Areas in Communications</u> , <u>SAC-1(6):1155-1158</u> (1983).
↑			"Full Duplex Speakerphone", <u>IBM Technical Disclosure Bulletin</u> , <u>29(12):5599-5602</u> (1987).
			"Go Global Without Leaving Your Office", <u>Artel Technology</u> , 4 pages (date unknown).
			"Information Processing Techniques Program. Volume II. Wideband Integrated Voice/Data Technology", <u>Massachusetts Inst. of Tech., Lexington, Lincoln Lab</u> , 36 pages (1978).
			"Integrated Voice/Data PABX", <u>IBM Technical Disclosure Bulletin</u> , pp. 1537-1538 (Sept. 1986).
			"ISDN Systems: Architecture, Technology, and Applications", Prentice-Hall, Inc., Englewood Cliffs, New Jersey (1990).
			"Jane's Military Communications, 1981", Jane's Publishing Company Limited, London (1981).
			"Jane's Military Communications, 1982", Jane's Publishing Company Limited, London (1982).
			"Jane's Military Communications, 1983", Jane's Publishing Company Limited, London (1983).
			"Jane's Military Communications, 1986", Jane's Publishing Company Limited, London (1986).
↓			"Jane's Military Communications, 1987", Jane's Publishing Company Limited, London (1987).
T-D			"Mechanism for Integrating Voice and Data on a Transmission Channel", <u>IBM Technical Disclosure Bulletin</u> , <u>30(5):208-209</u> (1987).

<b>EXAMINER</b> DANON JDN	<b>Date Considered</b> 9/8/01
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F-10			"Mitel MT8841 Calling Number Identification Circuit, Issue 4", 16 pages (1995).
↑			"Network Speech. System Implications of Packetized Speech", <u>Massachusetts Institute of Tech., Lexington, Lincoln Laboratory</u> , 30 pages (1976).
			"Northern Telecom's Displayphone", <u>What Telephone</u> , pp. 56-59 (year unknown).
			"One Per Desk (OPD)", Product Description, 24 pages (dated 2000).
			"Output Throttle Mechanism", <u>IBM Technical Disclosure Bulletin</u> , 32(11):274-279 (1990).
			"PC-Based ISDN Visual Communication System, Preliminary Information", <u>Artel Technology</u> , 2 pages (date unknown).
			"PICTURETEL, PictureTel's High Performance Video Conferencing is Redefining the Way the World Meets", <u>PictureTel Corporation</u> , 3 pages (date unknown).
			"Report on the MBone evaluations", 3 pages (date unknown).
			"Series V: Data Communication over the Telephone Network, Error control, Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion", <u>ITU-T Recommendation V. 42</u> , pp. 1-66 (1996).
			"STU-III Handbook for Industry", <u>Department of Defense Security Institute</u> , 10 pages (Feb. 1997).
			"Token-Ring Migration to Switched LAN Interconnect--A technical White Paper", pp. 1-19 (date unknown).
			"Voice/Data Concentrator", <u>IBM Technical Disclosure Bulletin</u> , pp. 3066-3067 (Jan. 1979).
T-10			Abbate et al., "Voice and Data Transmission", <u>IBM Technical Disclosure Bulletin</u> , 27(1B):524-525 (1984).

<b>EXAMINER</b> DANIEL DORR	<b>Date Considered</b> 9/8/01
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TJ		Addeo et al., "Personal Multi-Media Multi-Point Communication Services for Broadband Networks", <u>Globecom '86: IEEE Global Telecommunications Conference, December 1-4, 1986, Houston, Texas, Conference Record, vol. 1 of 3, pp. 0053-0057 (1988).</u>
↑		Ades et al., "Protocols for Real Time Voice Communication on a Packet Local Network", <u>University of Cambridge Computer Laboratory</u> , 6 pages (date unknown).
		Adolphs et al., "Adapters for the Public ISDN", <u>Electrical Communication</u> , 61(1) 9 pages (1987).
		Adolphs et al., "Subsets, Terminals, and Terminal Adapters for the Public ISDN", <u>Electrical Communication</u> , 61(1):72-80 (1987).
		Aguilar et al., "Architecture for a Multimedia Teleconferencing System", ACM 0-89791-201-2/86/0800-0126, pp 126-136 (1986).
		Ahuja et al., "The Rapport Multimedia Conferencing System", <u>Conference on Office Information Systems, March 23-25, 1988, Palo Alto, California, Association for Computing Machinery, Inc.</u> , pp. 1-8 (1988).
		Aikoh et al., "A New TDM Technique for Voice, Data and Video Transmission", <u>Globecom '87, Nov. 15-18, 1987, Tokyo, Japan</u> , pp. 28.7.1 - 28.7.5 (1987).
		Akiyama et al., "Digital Sketchphone--Telewriting Terminal for INS Model System--" <u>Review of the Electrical Communication Laboratories</u> , 33(2):250-259 (1985).
		Anderson et al., "Toolkit Support for Multiuser Audio/Video Applications", pp. 230-241 (date unknown).
✓		Andrews et al., "Faster Packets For Tomorrow's Telecommunications", <u>AT&amp;T Technology</u> , 3(4):25-33 (date unknown).
TJ		Angebrannt et al., "Integrating Audio and Telephony in a Distributed Workstation Environment", <u>Proceedings of the Summer 1991 Usenix Conference, June 10-14, 1991, Nashville, Tennessee</u> , pp. 419-435 (1991).

<b>EXAMINER</b> DANES TJN	<b>Date Considered</b> 9/8/01
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T.D			Aoki et al., "Protocol Processing for High-Speed Packet Switching Systems", <u>Proceedings of the International Seminar, Zurich, Switzerland, March 11-13, 1986</u> , pp. 125-130 (1986).
↑			Arango et al., "Touring Machine: A Software Platform for Distributed Multimedia Applications", Submitted to the <u>1992 IFIP International Conference on Upper Layer Protocols, Architectures, and Applications, Vancouver, Canada, May 1992</u> , 12 pages (1992).
			Armbruster, Heinrich, "Broadband ISDN--The Network of the Future: Applications and Compliance with User Requirements", <u>Globecom '86: IEEE Global Telecommunications Conference, December 1-4, 1986, Houston, Texas, Conference Record, vol. 1 of 3</u> , pp. 0484-0490 (1986).
			Arthurs et al., "Traffic Analysis Tools for Integrated Digital Time-Division Link Level Multiplexing of Synchronous and Asynchronous Message Streams", <u>IEEE Journal on Selected Areas in Communications, SAC-1(6):1112-1123</u> (1983).
			Ball et al., "A Multimedia Network Interface", 6 pages (date unknown).
			Barberis et al., "Coded Speech in Packet-Switched Networks: Models and Experiments", <u>IEEE Journal on Selected Areas in Communications, SAC-1(6):1028-1038</u> (1983).
			Barberis et al., "Analysis and Optimal Design of a Packet-Voice Receiver", <u>IEEE Transactions on Communications, COM-28(2):217-227</u> (1980).
			Beadle et al., "The Human Side of Multimedia Telecommunications", Appears in <u>Proceedings of the 2<sup>nd</sup> Australian Multimedia Communications, Applications and Technology Workshop, AOTC Ltd, Melbourne, July 13-14, 1992</u> , 11 pages (1992).
↓			Beckmann, William H., "Voice and Data Integration: An Applications Perspective", <u>LOCALNET '84, Proceedings of the conference held in San Diego USA, October 1</u> , Online Publications, New York, pp. 303-327 (1984).
T.D			Bellamy, John, "Digital Telephony" John Wiley & Sons, New York, pp. 392-412 (1982).

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	<b>Applicant(s):</b> Ty J. CASWELL et al.	
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